

2.5.2 either recorded in the Master Register, or coordinated under the provisions of this Section or of Section II of Article 11, or

USA/ /31 (MOD)

2.5.3 included in the coordination procedure with effect from the date of receipt by the ~~Board~~ Bureau, in accordance with paragraph 2.6 or No. 1074 or 1074A of Article 11, of the relevant information as specified in Appendix 3;

Reason: See USA/ /21.

or, for terrestrial services, are:

2.5.4 recorded in the Master Register with a favourable finding with respect to No. 1240, or

2.5.5 not notified but in use or planned to be brought into use within the next three years.

USA/ /32 ADD

2.5bis Coordination of space services (Earth-to-space) with the Fixed Service of an administration [in the bands [...]] [in those bands having a Table of Frequency Allocations footnote referencing this Resolution] is not required if:

- a) the frequency assignments referred to in 2.5.4 and 2.5.5 use analogue modulation and the power flux-density radiated over the territory of this administration into these frequency assignments does not exceed the threshold specified in [], or
- b) the frequency assignments referred to in 2.5.4 and 2.5.5 use digital modulation and the fractional degradation of performance caused into reference digital fixed service frequency assignments located in the territory of this administration does not exceed the threshold specified in [], or
- c) the application of the simulation method described in [] to fixed service frequency assignments located within the territory of this administration, leads to an interference level which does not exceed the threshold specified in [].

Reason: To eliminate unnecessary coordination with the Fixed Service.

USA/ /33 ADD

2.5ter No coordination under 2.1 or 2.2 is required:

- a) when an administration proposes to notify or bring into use, within the service area of a satellite network, a typical earth station or an earth station which would not cause or suffer interference of a level greater than the typical earth station; or

- b) when the interference resulting from a modification to a frequency assignment which has previously been coordinated will not exceed that value agreed during coordination; or
- c) when an administration proposes to notify or bring into use a new earth station which would not cause or suffer interference of a level greater than that which would be caused by an earth station belonging to the same satellite network and whose characteristics have been published in accordance with 2.7.2, or notified to the Bureau without coordination in those cases where coordination was not required; or
- d) when, for a new frequency assignment to a receiving station, the notifying administration states that it accepts the interference resulting from the frequency assignments referred to in 2.5.1 to 2.5.3; or
- e) between earth stations using frequency assignments in the same direction (either Earth-to-space or space-to-Earth).

Reason: To extend to non-geostationary-satellite networks exemptions from coordination, or re-coordination as the case may be, each of which currently appears in the Radio Regulations in respect to geostationary-satellite networks.

Coordination Data

USA/ /34 (MOD) 2.6 The administration seeking coordination shall send to the ~~Board~~ Bureau the information listed in Appendix 3.

Reason: See USA/ /21.

USA/ /35 (MOD) 2.7 On receipt of the complete information referred to in paragraph 2.6, the ~~Board~~ Bureau shall:

Reason: See USA/ /21.

- 2.7.1 examine this information with respect to its conformity with No. 1503; the date of its receipt shall be considered as the date from which the assignment will be taken into account for coordination;

USA/ /36 MOD 2.7.2 publish in the special section of its weekly circular, within three months, the information received under paragraph 2.6 and the result of the examination under paragraph 2.7.1³. When the ~~Board~~ Bureau is not in a position to comply with the time limit referred to above, it shall periodically so inform the administrations giving the reasons therefor.

Reason: To make clear to the BR, and to other administrations, which administrations' names are to comprise the list depicted in the footnote.

Examination of Coordination Data and Agreement Between Administrations

USA/ /37 (MOD) 2.8 On receipt of the special section referred to in paragraph 2.7.2, an administration shall promptly examine the matter with regard to interference which would be caused to the frequency assignments of its network or terrestrial stations, or caused by these assignments. In so doing, it shall have regard to the proposed date of bringing into use of the assignment for which coordination is sought. It shall then, within six months from the date of the relevant weekly circular, notify the administration seeking coordination of its agreement. If, however, the administration with which coordination is sought does not agree, it shall, within the same period, send to the administration seeking coordination the technical details of the networks or information on the terrestrial stations concerned upon which its disagreement is based, including the characteristics contained in Section C of Appendix 1 or Appendix 3 which have not previously been notified to the ~~Board~~ Bureau, and make such suggestions as it may be able to offer with a view to a satisfactory solution of the problem. A copy of these comments shall also be sent to the ~~Board~~ Bureau.

Reason: See USA/ /21.

2.8A Affected administrations, as well as the administration seeking coordination, shall make all

³ To help administrations identify services that may be affected, the ~~Board~~ Bureau shall also publish a list of administrations whose assignments comply with paragraphs 2.5 and 2.5.1 to 2.5.3 or paragraphs 2.5 and 2.5.4, and yet do not ~~comply with~~ meet any exception in paragraphs 2.5bis a), 2.5bis b) or 2.5bis c).

Reason: Correction of CPM95 text. As drafted, the added phrase in effect contains a double negative; assignments *complying with* any of the three added paragraphs cause their respective administrations' names *not* to appear in the list.

possible mutual efforts to overcome the difficulties in a manner acceptable to the parties concerned.

USA/ /38 ADD

2.8B When an administration has not responded to the Bureau within the period of six months referred to in paragraph 2.8, it shall be deemed that this administration has undertaken:

- a) that no complaint will be made in respect of any harmful interference affecting the services rendered by its space radiocommunication or terrestrial stations which may be caused by the use of the assignment to a station of the satellite network for which coordination was requested; and
- b) that its space radiocommunication or terrestrial stations will not cause harmful interference to the satellite network assignment for which coordination was requested.

Reason: To identify the rights at risk through non-response.

Results of Coordination

USA/ /39 (MOD)

2.9 An administration which has initiated a coordination procedure under the provisions of paragraphs 2.1 to 2.6 shall communicate to the ~~Board~~ Bureau the names of the administrations with which agreement has been reached. The ~~Board~~ Bureau shall publish this information in the special section of its weekly circular.

Reason: See USA/ /21.

USA/ /40 (MOD)

2.10 An administration which has sought coordination, as well as any administration which has complied with the provisions of paragraph 2.8, shall communicate to the ~~Board~~ Bureau any modifications to the published characteristics of their respective networks or stations that were required to reach agreement on the coordination. The ~~Board~~ Bureau shall publish this information in accordance with paragraph 2.7.2, indicating that these modifications resulted from the joint efforts of the administrations concerned to reach agreement on the coordination.

Reason: See USA/ /21.

Notification of Frequency Assignments in the Event of Continuing Disagreement

USA/ /41 (MOD) 2.11 In the event of continuing disagreement between an administration seeking to effect coordination and any administration with which coordination has been sought, the administration seeking coordination shall, except in the cases where the assistance of the Board Bureau has been requested, defer the submission of its notice concerning the proposed assignment by eight months from the date of publication of the special section referred to in paragraph 2.7.2, taking into account the provisions of No. 1496. When the assistance of the Board Bureau has been requested, the submission of the notice shall be deferred for a further three months.

Reason: See USA/ /21.

USA/ /42 MOD

Section III. Coordination of Frequency Assignments to Earth Stations of a Non-Geostationary-Satellite Network in Relation to Terrestrial Stations and of a Satellite Network in Relation to other Earth Stations in the Opposite Direction of Transmission⁴

Reason: To provide a coordination procedure to accommodate bi-directional operations for MSS feeder links.

Requirement for Coordination

USA/ /43 (MOD) 3.1 Before an administration notifies to the Board Bureau or brings into use any frequency assignment to a fixed earth station or to typical earth stations in a particular band allocated with equal rights to space and terrestrial radiocommunication services, it shall effect coordination of the assignment with each administration whose territory lies wholly or partly within the coordination area⁵. The request for coordination may specify all or some of the frequency assignments to the associated space station, but thereafter

⁴ Section III does not apply to the coordination of an Earth-to-space assignment of a satellite network vis-à-vis terrestrial services in the case where a pfd threshold at the border of the territory of another administration, specified in a provision of the Radio Regulations, is not exceeded.

⁵ The coordination area is defined as the service area in which it is intended to operate the typical earth stations, extended in all directions by a coordination distance of 500 km, or as a circular zone with a radius of 500 km centered on the coordinates of the fixed earth station. For a service area in which aircraft earth stations operate, the coordination area is the service area extended in all directions by a coordination distance of 1 000 km.

each assignment shall be dealt with individually.

Reason: See USA/ /21.

USA/ /44 ADD

3.1.1 No coordination under paragraph 3.1 is required when an administration proposes:

- a) to bring into use an earth station the coordination area of which does not include any of the territory of any other country; or
- b) to change the characteristics of an existing assignment in such a way as not to increase the interference to or from the terrestrial radiocommunication stations of other administrations or the earth station of other administrations in the opposite direction of transmission; or
- c) to bring into use a new frequency assignment to a receiving earth station and the notifying administration states that it accepts the interference resulting from existing and future terrestrial station assignments or earth station assignments in the opposite direction of transmission.
- d) In such cases, the administration responsible for the terrestrial station(s), or the earth station(s), is not required to apply the provisions of Section IV, or Section III respectively, hereof.

Reason: To extend to earth stations of non-geostationary-satellite networks exemptions from coordination, or re-coordination as the case may be, each of which currently appears in the Radio Regulations in respect to earth stations of geostationary-satellite networks.

Coordination Data

USA/ /45 (MOD)

3.2 For the purpose of effecting coordination, the administration requesting coordination shall send to each administration concerned under paragraph 3.1 all pertinent information concerning the proposed frequency assignment as listed in Appendix 3, and an indication of the approximate date on which it is planned to begin operations. A copy of this information with the date of dispatch of the request for coordination shall also be sent to the ~~Board~~ Bureau for information.

Reason: See USA/ /21.

Acknowledgement of Receipt of Coordination Data

3.3 An administration with which coordination is sought under paragraph 3.1 shall immediately acknowledge receipt of the coordination data.

Examination of Coordination Data and Agreement Between Administrations

3.4 On receipt of the coordination data, an administration shall, having regard to the proposed date of bringing into use of the assignment for which coordination was requested, promptly examine the matter with regard to both:

USA/ /46 MOD 3.4.1 interference which would affect the service rendered by its terrestrial radiocommunication stations or by its earth stations in the opposite direction of transmission, operating in accordance with the Convention and these Regulations, or to be so operated prior to the planned date of bringing into service of the earth station assignment, or within the next three years, whichever is the longer; and

Reason: To provide a coordination procedure to accommodate bi-directional operations in the FSS.

USA/ /47 MOD 3.4.2 interference which would be caused to reception at an earth station by the service rendered by its terrestrial radiocommunication stations or by its earth stations in the opposite direction of transmission, operating in accordance with the Convention and these Regulations, or to be so operated prior to the planned date of bringing into service of the earth station assignment, or within the next three years, whichever is the longer.

Reason: See USA/ /21.

USA/ /48 ADD 3.4.3 The periods referred to in paragraphs 3.4.1 and 3.4.2 may be extended by agreement between the administrations concerned in order to take planned terrestrial and space networks into account. The earth station to earth station coordination may commence five and one-half years before bringing into use these stations.

Reason: To embrace planned assignments up to the degree permitted under the well established, counterpart geostationary network procedures.

3.5 The administration with which coordination is sought shall, within four months from dispatch of the coordination data:

USA/ /49 (MOD) 3.5.1 notify the administration requesting coordination of its agreement with a copy to the Board Bureau, indicating, where appropriate, the part of the allocated frequency band

containing the coordinated frequency assignments; or

Reason: See USA/ /21.

USA/ /50 ADD 3.5.2 send to that administration a request for inclusion in coordination of the terrestrial radiocommunication stations or the earth stations in the opposite direction of transmission mentioned in 3.4.1 and 3.4.2; or

Reason: To define an administration's minimum obligation to effect protection of its rights.

USA/ /51 (MOD) 3.5.23 notify that administration of its disagreement.

Reason: Consequential.

USA/ /52 MOD 3.6 In the cases mentioned in paragraphs 3.5.2 and 3.5.3, the administration with which coordination is sought shall send to the administration requesting coordination a diagram drawn to an appropriate scale indicating the location of those terrestrial radiocommunication stations or earth stations in the opposite direction of transmission which are or will be within the coordination area, together with all other relevant basic characteristics using Appendix 1 or Appendix 3, as appropriate, and make such suggestions as it may be able to offer with a view to a satisfactory solution of the problem.

Reason: To inform the proponent administration, in sufficient specificity to facilitate any practicable technical measures, as to the assignments, notified or otherwise, for which protection is desired by the administration of whom coordination is being sought.

USA/ /53 MOD 3.7 When the administration with which coordination is sought sends to the administration seeking coordination the information required in the case of paragraph 3.5.23, a copy thereof shall also be sent to the ~~Board~~ Bureau. The Bureau shall consider as notifications in accordance with Section I of Article 12 or Section I of Article 13, as appropriate, only that information relating to existing radiocommunication stations, or to those to be brought into use within the next three years.

Reason: To extend to the administration of whom coordination is sought the same rights as would have accrued had it notified its assignments prior to its receipt of the request for coordination.

USA/ /54 ADD 3.7.1 When an agreement on coordination is reached, as a consequence of paragraphs 3.5 to 3.7, the administration responsible for the terrestrial stations or the earth stations in the opposite direction of transmission, may send to the Bureau the information concerning those stations covered by the agreement which are intended to be notified in accordance with Section I of Article 12 or Section I of Article 13, as appropriate. The Bureau shall consider as notifications in accordance with those Sections only that information relating to existing radiocommunication stations or to those to be brought into use within the next three years.

Reason: To provide for the notification of successfully coordinated proposed assignments.

Notification of Frequency Assignments in the Event of Continuing Disagreement

USA/ /55 (MOD) 3.8 In the event of continuing disagreement between an administration seeking to effect coordination and an administration with which coordination has been sought, the administration seeking coordination shall, except in the cases where the assistance of the ~~Board~~ Bureau has been requested, defer the submission of its notice concerning the proposed assignment by six months from the date of the request for coordination, taking into account the provisions of No. 1496. When the assistance of the ~~Board~~ Bureau has been requested, the submission of the notice shall be deferred for a further three months.

Reason: See USA/ /21.

**Section IV. Coordination of Frequency Assignments to
Terrestrial Stations for Transmission in Relation to Earth Stations of a
Non-Geostationary-Satellite Network**

Requirement for Coordination

USA/ /56 (MOD) 4.1 Before an administration notifies to the ~~Board~~ Bureau, or brings into use any frequency assignment to a terrestrial station for transmission within the coordination area⁶ of an earth station of a non-geostationary-satellite network, in a band allocated with equal rights to terrestrial radiocommunication services and space radiocommunication

⁶ The coordination area is defined as the service area in which it is intended to operate the typical earth stations, extended in all directions by a coordination distance of 500 km, or as a circular zone with a radius of 500 km centered on the coordinates of the fixed earth station. For a service area in which aircraft earth stations operate, the coordination area is the service area extended in all directions by a coordination distance of 1 000 km.

services (space-to-Earth), it shall effect coordination of the proposed assignment with the administration responsible for the earth stations with respect to the frequency assignments:

Reason: See USA/ /21.

4.1.1 which are in conformity with No. 1503; and

4.1.2 for which coordination has been agreed under paragraph 3.5.1., or

USA/ /57 ADD

4.1.3 which are to be taken into account for coordination with effect from the date of communication of the information referred to in paragraph 3.1.

Reason: To take into account proposed conforming assignments which have commenced coordination.

USA/ /58 ADD

4.1 bis No coordination under paragraph 4.1 is required when an administration proposes:

a) to bring into use a terrestrial station which is located, in relation to an earth station, outside the coordination area; or

b) to change the characteristics of an existing assignment in such a way as not to increase the interference to the earth stations of other administrations; or

c) to bring into use a terrestrial station within the coordination area of an earth station, provided that the proposed terrestrial station assignment is outside any part of a frequency band coordinated under 3.5.1 for reception by that earth station.

Reason: To enumerate particular proposed terrestrial assignments not requiring coordination.

Coordination Data

4.2 For the purpose of effecting coordination, the administration requesting coordination shall send to each administration concerned under paragraph 4.1 all pertinent information. The request for coordination may specify all or some of the frequency assignments expected to be used within the next three years by stations of a terrestrial network wholly or partly within the coordination area of the earth stations. Thereafter each assignment shall be dealt with individually.

Acknowledgement of Receipt of Coordination Data

4.3 An administration with which coordination is sought under paragraph 3.1 shall immediately acknowledge receipt of the coordination data.

Examination of Coordination Data and Agreement Between Administrations

4.4 On receipt of the coordination data, the administration with which coordination is sought shall promptly examine the matter with regard to interference which would affect the services rendered by its earth stations covered by paragraph 4.1, which are operating or are to be operated within the next three years.

4.5 The administration with which coordination is sought shall, within an overall period of four months from dispatch of the coordination data, either notify the administration requesting coordination of its agreement to the proposed assignment or, if this is not possible, indicate the reasons for its objection and make such suggestions as it may be able to offer with a view to a satisfactory solution of the problem.

Notification of Frequency Assignments in the Event of Continuing Disagreement

USA/ /59 (MOD) 4.6 In the event of continuing disagreement between an administration seeking to effect coordination and an administration with which coordination has been sought, the administration seeking coordination shall, except in the cases where the assistance of the ~~Board~~ Bureau has been requested, defer the submission of its notice concerning the proposed assignment by six months from the date of the request for coordination, taking into account the provisions of Nos. 1230 and 1496. When the assistance of the ~~Board~~ Bureau has been requested, the submission of the notice shall be deferred for a further three months.

Reason: See USA/ /21.

Section V. Notification of Frequency Assignments

Notification of Assignments to Space Stations and Earth Stations

USA/ /60 (MOD) 5.1 An administration shall, for the purpose of notifying an assignment to the ~~Board~~ Bureau, apply the provisions of Article 13. When applying the provisions of Article 13 to frequency assignment notices relating to space stations and earth stations covered by this Resolution, the ~~Board~~ Bureau shall:

Reason: See USA/ /21.

- 5.1.1 in applying No. 1504, also examine the notice with respect to its conformity with the provisions of paragraphs 2.1 or 2.2 relating to coordination of the use of the frequency assignment with the other administrations concerned;
- 5.1.2 in applying No. 1505, also examine the notice with respect to its conformity with the provisions of paragraph 3.1 relating to coordination of the use of the frequency assignment with the other administrations concerned;
- 5.1.3 in applying No. 1506, also examine the notice with respect to the probability of harmful interference when the coordination under paragraph 2.1 or 2.2 has not been successfully effected;
- 5.1.4 in applying No. 1509, also examine the notice with respect to the probability of harmful interference when the coordination under paragraph 3.1 has not been successfully effected;
- 5.1.5 not apply Nos. 1515 and 1516.

5.2 The examination under paragraph 5.1.3 or 5.1.4 shall take into account the frequency assignments for transmission or reception already recorded in the Master Register.

Notification of Assignments to Terrestrial Stations

- USA/ /61 (MOD) 5.3 An administration shall, for the purpose of notifying an assignment to the ~~Board~~ Bureau, apply the provisions of Article 12. When applying the provisions of Article 12 the ~~Board~~ Bureau shall, in application of No. 1353, examine frequency assignment notices relating to terrestrial stations covered by this Resolution with respect to their conformity with the provisions of paragraph 4.1 relating to coordination of the use of the frequency assignment with the other administrations concerned.

Reason: See USA/ /21.

Section E

RECOMMENDED UNITED STATES PROPOSALS

Agenda Item 3d)

United States of America

Proposals for Agenda Item 3(d)

ADDITIONAL ALLOCATIONS

Introduction:

Following WARC-92, the United States received applications for non-geostationary fixed satellite services operating in the Ka band. These low earth orbiting satellites have the ability to deliver advanced, broadband, digital transmissions at a low cost, regardless of location.

These systems can provide an instant telecommunications infrastructure, vital for economic development as well as for education, government, health care and public services. Due to the cost of setting up wireline or terrestrial networks, many remote parts of the US, and the world, do not have advanced communications networks and may never develop such an infrastructure. These low earth orbiting broadband satellite networks enable local telephone companies, network service providers, and government authorities around the world to cost-effectively modernize the existing communications infrastructure, increasing economic opportunity and quality of life. One such operator has even offered in an international forum to offer excess system capacity to developing nations on a non-profit basis.

Spectrum is already allocated in the Ka band for the fixed-satellite service. Therefore, there is only the need to provide certainty in the availability of this spectrum where these emerging technologies, proposed for operation within the next five years, will operate. The following USA proposal addresses the addition of footnotes to the Radio Regulations to allow for the accommodation of such satellite systems

GHz
18.8-19.7

USA/ /1 MOD

Allocation To Services		
Region 1	Region 2	Region 3
18.8-19.7	FIXED FIXED-SATELLITE-SERVICE (space-to- Earth) <u>ADD873H</u> <u>ADD 873I</u>	

GHz
27.5-29.5

USA/ /1 MOD

Allocation To Services		
Region 1	Region 2	Region 3
28.5-29.5	FIXED FIXED-SATELLITE SERVICE (Earth-to-space)882D <u>ADD 873H ADD873I</u> MOBILE Earth Exploration-Satellite(Earth-to-space)882C 882B	

ADD 873H The provisions of RR No.2613 do not apply to non-geostationary fixed satellite systems operating in the bands 18.8 - 19.3GHz(space-to-Earth) and 28.6 - 29.1 GHz(Earth-to-space). Stations of GSO fixed satellite service networks brought into use in the band 18.8 - 19.3GHz (space-to-Earth) and 28.6 - 29.1 (Earth-to-space) after November xx, 1995 shall not claim protection from and shall not cause harmful interference to non-geostationary fixed satellite service networks in this band.

REASON: Procedural revisions are necessary to provide a regulatory base which would permit the orderly operation of non-geostationary fixed-satellite services without any regulatory uncertainties to their full operational life. Consequently, the provisions of RR No.2613 would not apply in this band, but only for non-geostationary fixed-satellite service in the specific directions of transmission.

NOTE: Proposed footnotes 873H and 873I and proposed footnotes 882H, 882I, 872A, 872B, 872C, and 872D involve frequencies that overlap. In the event both of these proposals are adopted by the Conference, these new footnotes would need to be combined in an amended table of allocations.

ADD 873I After November xx, 1995, the use of the bands 18.8-19.3GHz(space-to-Earth) and 28.6-29.1GHz(Earth-to-space) by the fixed satellite service is subject to the application of the coordination and notification procedures set forth in MOD Res 46 for the coordination between non-geostationary satellite networks and between non-geostationary satellite networks and terrestrial networks.

REASON: Procedures are required to facilitate the orderly operation of non-geostationary fixed satellite systems. Therefore, the application of the coordination and notification procedures set forth in MOD Resolution **46** would be necessary for shared, co-directional use of the band by non-geostationary fixed satellite networks.

NOTE: Proposed footnotes 873H and 873I and proposed footnotes 882H, 882I, 872A, 872B, 872C, and 872D involve frequencies that overlap. In the event both of these proposals are adopted by the Conference, these new footnotes would need to be combined in an amended table of allocations.

Section F

RECOMMENDED UNITED STATES PROPOSALS

Agenda Item 1

VGE - Task 1

United States of America

Proposals for Agenda Item 1 (Concerning Task 1 of the Report of the VGE)

Introduction: Within Task 1, the VGE studied the allocation process and the allocation table itself. Individual experts suggested many changes that would in theory improve the allocation of the spectrum. However, during the VGE work, most of the approaches were found to have drawbacks. Approaches that simplified the allocation process or consolidated services appeared to lead to more complicated coordination requirements. None of the proposed methods guaranteed significant improvements over the existing process. The result is a set of principles recommended by the VGE which should be applied, while recognizing that specific factors could not be ignored.

The United States supports the basic Task 1 Recommendations (**Recommendations 1/1 through 1/6**) dealing with the framework for allocation of frequencies to maintain the existing allocation system. The United States further agrees that the "Permitted" category of service is no longer necessary. The purpose for the permitted service can be met through other means.

Recommendations 1/7 through 1/12, methods of frequency allocations and use of footnotes, provide principles to be used in the allocation of spectrum. The United States supports these principles believing that they provide for allocation flexibility while keeping the allocation table simple. Each recommendation recognizes that specific circumstances and factors determine final allocation decisions. The application of these principles must be performed on a case-by-case basis.

The United States supports **Recommendations 1/13 through 1/16** as an adequate system for implementing the VGE recommendations over the long term. In order to maintain prominence of these concepts as succeeding WRC's address allocation issues, the United States proposes Recommendation No. ZZZ.

Recommendations 1/17 through 1/27, for the most part, represent immediate actions that can be taken to follow the principles set out in earlier recommendations. Therefore, these recommendations are set out as recommended action for WRC-95. Except where noted, we support all of these actions. In particular, the following actions are foreseen:

- **Recommendation 1/17** addresses conversion of the Permitted service allocations (Recommendation 1/5).
- **Recommendation 1/18** concerns the deletion of the term "Aeronautical Fixed Service", and consequent conversion of related allocations. The United States supports this action (as this service is no longer required as a distinct service.) However, we note that there will be a need to define clearly the process for conversion of existing frequency assignments and implement any new allocations in the two bands affected (near 22 MHz and 23 MHz).
- **Recommendations 1/19 and 1/20** propose a method of carrying out Recommendation 1/12 by creating a single format for footnotes to the Table of Frequency Allocations that refer to former Article 14. **Recommendation 1/21** proposes use of a linking provision (ADD 436A) citing a requirement to complete procedures of the new Article S9. It is our view that this linking provision unnecessarily complicates the understanding of the notes and runs counter to the intent of the VGE to simplify. How a specific assignment is in conformity with the Table of Frequency Allocations only after successful application of Article S9 is not clear. For example, what is the status of an assignment for which S9 is successfully applied in coordination with

some countries, but not others? It would be simpler to have each of the footnotes refer, instead, directly to the new Article S9. The requirement to coordinate would be maintained, and an assignment's status with respect to particular countries would be as addressed within that Article. **Recommendation 1/22** asks the Bureau to consult with administrations about the possibility of having a future conference suppress notes that have not been invoked and are no longer needed.

- **Recommendation 1/23** pertains to consolidation and standardization of several footnotes related to Radio Astronomy. We generally support this approach; however, we see a need to correct frequency entries in the new consolidated note MOD RR 533 (S5.149) as detailed below.
- **Recommendation 1/24** outlines proposals to combine and standardize wording for notes related to *Industrial, Scientific and Medical* (ISM) applications.
- **Recommendation 1/25** outlines proposals to combine wording for several footnotes in bands allocated to passive services where all emissions are prohibited.
- **Recommendations 1/26, and 1/27** address themselves to the Bureau and Administrations to set up a process for review of country footnotes (Recommendations 1/15 and 1/16) that may no longer be needed.

Specific proposals regarding VGE Task 1 are contained below.

Article 8 (S5) Frequency Allocations

Section II. Categories of Service and Allocations

**USA/ 11
SUP**

436A
(S5.45)

Reason: Provision unnecessary; suppressed to facilitate simplification.

**USA/ 12
(MOD)**

452
(S5.61)

In Region 2, the establishment and operation of stations in the maritime radionavigation service in the bands 70- 90 kHz and 110 - 130 kHz shall be subject to agreement obtained under the procedure ~~set forth in Article 14~~ applicable under S9.21 with administrations whose services, operating in accordance with the Table, may be affected. However, stations of the fixed, maritime mobile and radiolocation services shall not cause harmful interference to stations in the maritime radionavigation service established under such agreements.

USA/ 13
to
USA/ 160

Similar to (MOD) 452 shown above, replace the phrase: "set forth in Article 14" with "applicable under S9.21", in the following provisions:

USA/ 13	(MOD) 484
USA/ 14	(MOD) 485
USA/ 15	(MOD) 487
USA/ 16	(MOD) 513
USA/ 17	(MOD) 567
USA/ 18	(MOD) 572A
USA/ 19	(MOD) 581
USA/ 110	(MOD) 590A
USA/ 111	(MOD) 591
USA/ 112	(MOD) 608
USA/ 113	(MOD) 613B
USA/ 114	(MOD) 616
USA/ 115	(MOD) 619
USA/ 116	(MOD) 635
USA/ 117	(MOD) 638
USA/ 118	(MOD) 641
USA/ 119	(MOD) 643
USA/ 120	(MOD) 645A
USA/ 121	(MOD) 648
USA/ 122	(MOD) 660A
USA/ 123	(MOD) 668
USA/ 124	(MOD) 672
USA/ 125	(MOD) 673
USA/ 126	(MOD) 674
USA/ 127	(MOD) 675
USA/ 128	(MOD) 678
USA/ 129	(MOD) 692
USA/ 130	(MOD) 692A
USA/ 131	(MOD) 700
USA/ 132	(MOD) 701
USA/ 133	(MOD) 703
USA/ 134	(MOD) 704
USA/ 135	(MOD) 704A
USA/ 136	(MOD) 705
USA/ 137	(MOD) 707A
USA/ 138	(MOD) 712A
USA/ 139	(MOD) 732
USA/ 140	(MOD) 733
USA/ 141	(MOD) 733B
USA/ 142	(MOD) 745
USA/ 143	(MOD) 746
USA/ 144	(MOD) 754
USA/ 145	(MOD) 754A
USA/ 146	(MOD) 757
USA/ 147	(MOD) 761
USA/ 148	(MOD) 763
USA/ 149	(MOD) 766
USA/ 150	(MOD) 791

USA/ /51	(MOD) 797
USA/ /52	(MOD) 797B
USA/ /53	(MOD) 810
USA/ /54	(MOD) 811
USA/ /55	(MOD) 812
USA/ /56	(MOD) 815
USA/ /57	(MOD) 831
USA/ /58	(MOD) 839
USA/ /59	(MOD) 852
USA/ /60	(MOD) 892

Reason: Consequential to incorporation of former Article 14 into new Article S9.

Section IV. Table of Frequency Allocations

USA/ /61	MOD 533 (S5.149)	In making assignments to stations of other services to which the bands	
13 360-13 410 KHz,	4 825-4 835 MHz*,	93.07-93.27 GHz*,	
25 550-25 670 KHz,	4 950-4 990 MHz,	97.88-98.08 GHz*,	
37.5-38.25 MHz,	4 990-5 000 MHz,	140.69-140.98 GHz*,	
73-74.6 MHz in Regions 1 and 3,	10.6-10.68 GHz,	144.68-144.98 GHz*,	
	14.47-14.5 GHz,	145.45-145.75 GHz*,	
79.75-80.25 MHz in Region 3,	22.01-22.21 GHz*,	146.82-147.12 GHz*,	
150.05-153 MHz in Region 1,	22.21-22.5 GHz,	150-151 GHz*,	
	22.81-22.86 GHz*,	174.42-175.02 GHz*,	
322-328.6 MHz,	23.07-23.12 GHz,	177-177.4 GHz*,	
406.1-410 MHz,	31.2-31.3 GHz*,	178.2-178.6 GHz*,	
608-614 MHz in Regions 1 and 3,	31.5-31.8 GHz in Regions 1 and 3,	181-181.46 GHz*,	
1 330-1 400 MHz*,	36.43-36.5 GHz*,	186.2-186.6 GHz,	
		250-251* GHz,	
1 610.6-1 613.8 MHz,	<u>42.5-43.5 GHz*</u> ,	257.5-258 GHz*,	
1 660-1 670 MHz,	42.77-42.87 GHz* ,	261-265 GHz,	
1 718.8-1 722.2 MHz*,	43.07-43.17 GHz* ,	262.24-262.76*,	
2 655-2 690 MHz,	43.37-43.47 GHz* ,	<u>265-275 GHz*</u> ,	

3 260-3 267 MHz*,	48.94-49.04 GHz*,	265.64-266.16 GHz*,
3 332-3 339 MHz*,		267.34-267.86 GHz*,
3 345.8-3 352.5 MHz*,		271.74-272.26 GHz*,

are allocated (*indicates radio astronomy use for spectral line observations), administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from space- or airborne stations can be particularly serious sources of interference to the radio astronomy service (see Nos. S4.5 and S4.6 and Article S29).

Reason: to provide the proper band limits in the VGE recommended text. RR 900 and RR 926 provide protection to the radio astronomy service in the entire 42.5-43.5 GHz and 265-275 GHz bands, respectively.

USA/ /62 SUP 700 ~~Additional allocation: in Region 2, the band 806-890 MHz is also allocated to the mobile-satellite service on a primary basis. The use of this service is intended for operation within national boundaries and subject to agreement obtained under the procedure set forth in Article 14.~~

Reason: No application of the mobile-satellite service in this band is foreseen.

USA/ /63 SUP 704A ~~Additional allocation: in Brazil, Canada and the United States of America the band 890-896 MHz is also allocated to the mobile-satellite service on a primary basis. The use of this service is intended for operation within national boundaries and subject to agreement obtained under the procedure set forth in Article 14. In seeking such agreement, appropriate protection shall be afforded to services operating in accordance with the Table.~~

Reason: The United States no longer has a need to maintain this regulation. We understand also that neither Brazil nor Canada require this footnote as well. VGE Recommendation 1/15 pertains.

Method of Frequency Allocation and The Use of Footnotes

The World Radiocommunication Conference, Geneva, 1995

Considering

- a) that Article 8 (S5), the Table of Frequency Allocations, represents the basis for specification of uses of radio frequency bands;
- b) that, in order to ensure that the Table of Frequency Allocations provides for national flexibility in spectrum use, principles of allocation are needed;
- c) that, in order to ensure that footnotes allow modification to the Table of Frequency Allocations without unnecessarily complicating it, principles related to the use of footnotes are needed;

Recommends That Future World Radiocommunication Conferences

- a) should, wherever possible, allocate frequency bands to the most broadly defined services to provide the maximum flexibility to administrations in spectrum use, taking into account safety, technical, operational, economic and other relevant factors;
- b) should, wherever possible, allocate frequency bands on a worldwide basis -- aligned services, categories of services and frequency band limits, taking into account safety, technical, operational, economic and other relevant factors;
- c) should, wherever possible, adopt footnotes to the Table of Frequency Allocations that are confined to altering, limiting, or otherwise changing the relevant allocations rather than dealing with the operation of stations, assignment of frequencies or other matters;
- d) should include only those footnotes to the Table of Frequency Allocations which have international implications for the use of the radio-frequency spectrum;
- e) should adopt new footnotes to the Table of Frequency Allocations only;
 - 1) to achieve flexibility in the Allocation Table; or
 - 2) to protect existing usage when the relevant allocations are changed; or
 - 3) to introduce either transitional or permanent restrictions on a new service to achieve compatibility; or
 - 4) to provide for the specific requirements of a country or area when it is impracticable to meet such needs otherwise within the Table of Frequency Allocations'

- f) should adopt footnotes, which are serving a common purpose, and should be written in a common format, wherever possible, and be grouped into a single footnote with appropriate references to the relevant frequency bands;
- g) when adopting recommendations on future WRC agendas that concern frequency allocations for radio services, should include adequate scope for consideration of recommendations a) through f) above, and should allow the suppression of country footnotes or the suppression of country names from footnotes irrespective of the agenda otherwise defined.

Recommends To Administrations

- h) that in making proposals to WRCs, account should be taken of recommendations a) through g);

Instructs The Director Of The Radiocommunication Bureau In Consultation With The Radio Regulations Board

- i) to periodically review footnotes, in consultation with concerned administrations, and communicate the results to the next competent WRC, with a view to administrations proposing the suppression of their country footnotes, or their own country names from footnotes as appropriate.

Reason: To continue recommendations 1/7 - 1/16 of the VGE with respect to the methods of allocating spectrum and the use of footnotes.

United States of America

Proposals for Agenda Item 1

SIMPLIFIED PROCEDURES

APPENDIX S 25

Frequency Allotment Plan for Coast Radiotelephone
Stations Operating in the Exclusive Maritime Mobile
Bands between 4 000 kHz and 27 500 kHz

General:

VGE Recommendation No. 2/4 identified Appendix 25 and Article 16 as an area where the Radio Regulations could be simplified. Considering that Appendices 26, 27, 30, 30A and 30B are virtually stand-alone plans that contain most of the provisions for their coordination, notification and modification and further noting the VGE's efforts in simplifying the Radio Regulations, particularly the provisions related to Appendix 25, the United States believes that Appendix 25 and Article 16 should be consolidated into a stand-alone plan. Therefore the United States submits proposal Appendix S25 "Frequency Allotment Plan for Coast Radiotelephone Stations Operating in the Exclusive Maritime Mobile Bands Between 4 000 kHz and 23 000 kHz." This proposal includes the appropriate provisions of Article 12, Article 16 in its entirety, and appropriate provisions of Article 60 (S52), along with the current allotment plan as a replacement for the aforementioned provisions.

USA/ /1 (ADD)

ARTICLE 1

Procedure for Bringing Up to Date the
Frequency Allotment Plan for Coast
Radiotelephone Stations Operating
in the Exclusive Maritime Mobile Bands
Between
4 000 kHz and 23 000 kHz

1682

§ 1. (1) Before notifying to the ~~International Frequency Registration Board~~ Radiocommunication Bureau or bringing into use at any coast radiotelephone station a frequency assignment not covered by an allotment in the Frequency Allotment Plan